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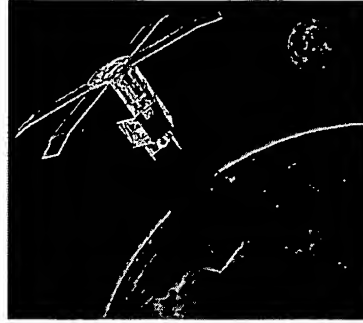
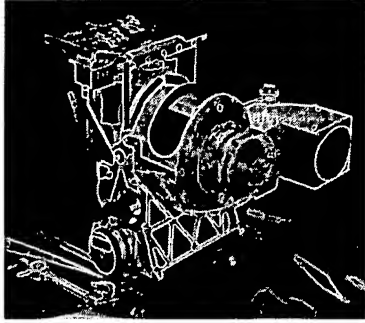


Fig-1 -- The SeaWiFS sensor (left) flying aboard the SeaStar platform (right)

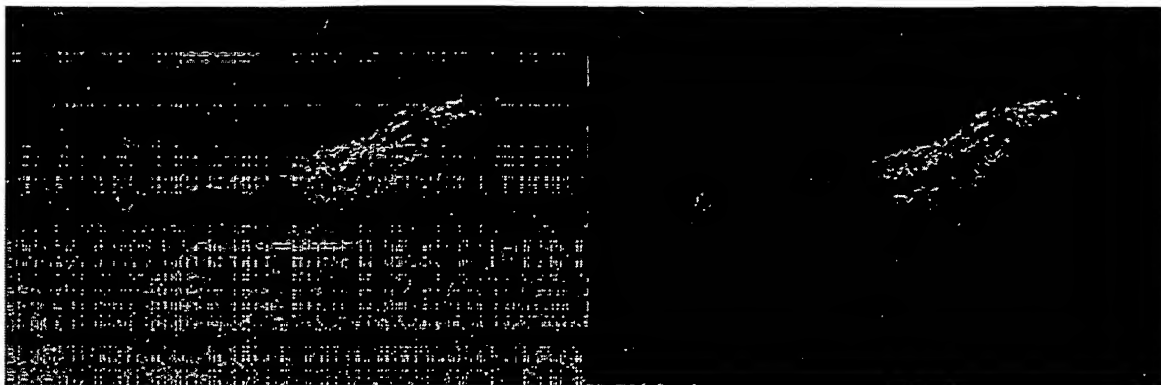


Fig-2 -- Raw SeaWiFS data from a Navy Regional Center (NRC) receiving station (left) and the noise/line corrected equivalent (right)

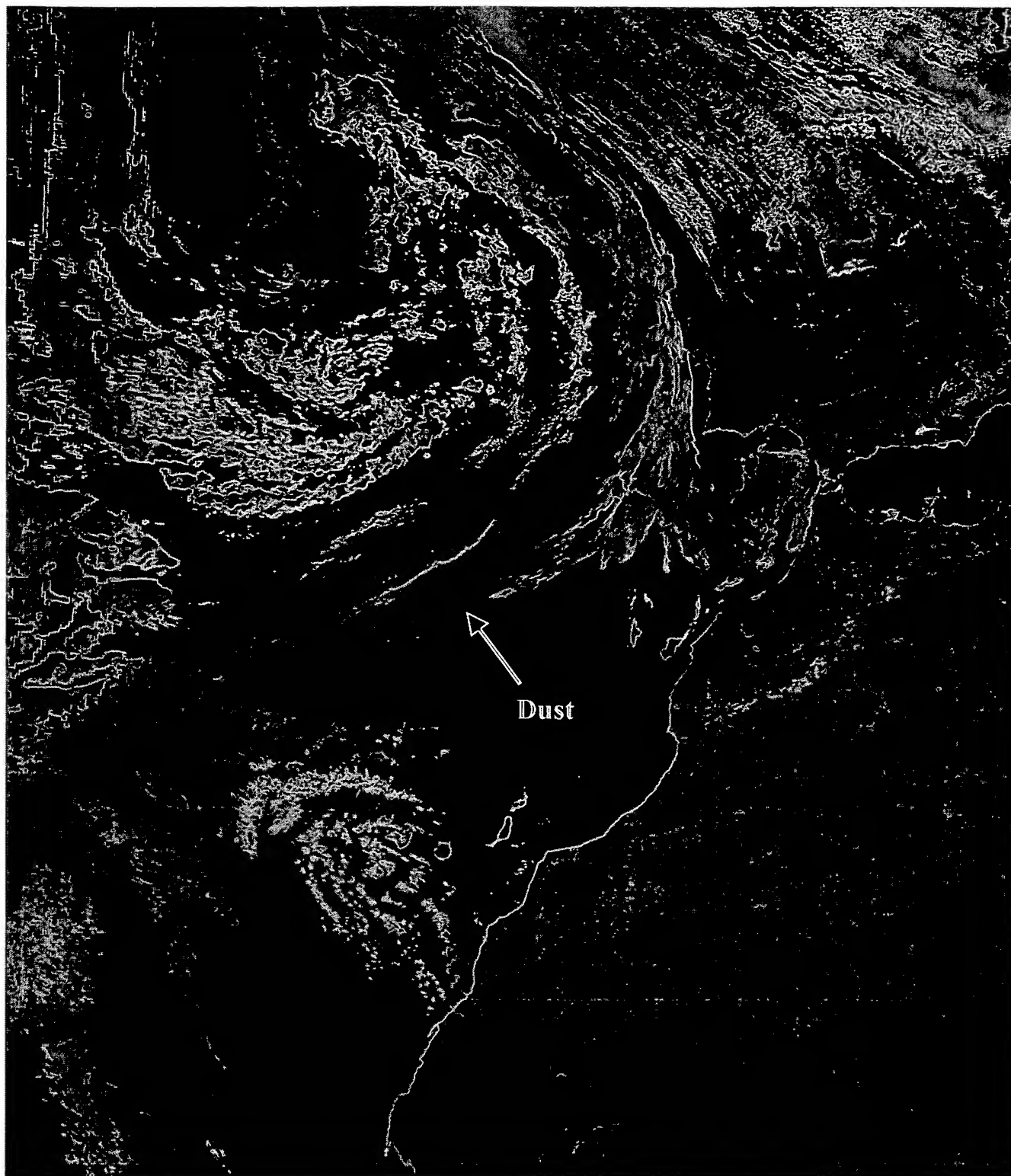


Fig-3 -- SeaWiFS High Resolution Picture Transmission (HRPT) true color image of the Eastern Atlantic Ocean, Iberian Peninsula, and Northwestern Africa, captured by NRC in Rota, Spain (02/13/01, 1255Z). A large dust plume wrapping into a baroclinic system is indicated

SeaWiFS BHR 2001/11/13 0841Z Naval Research Lab Mry True Color
(Red=670nm, Green=555nm, Blue=412nm)

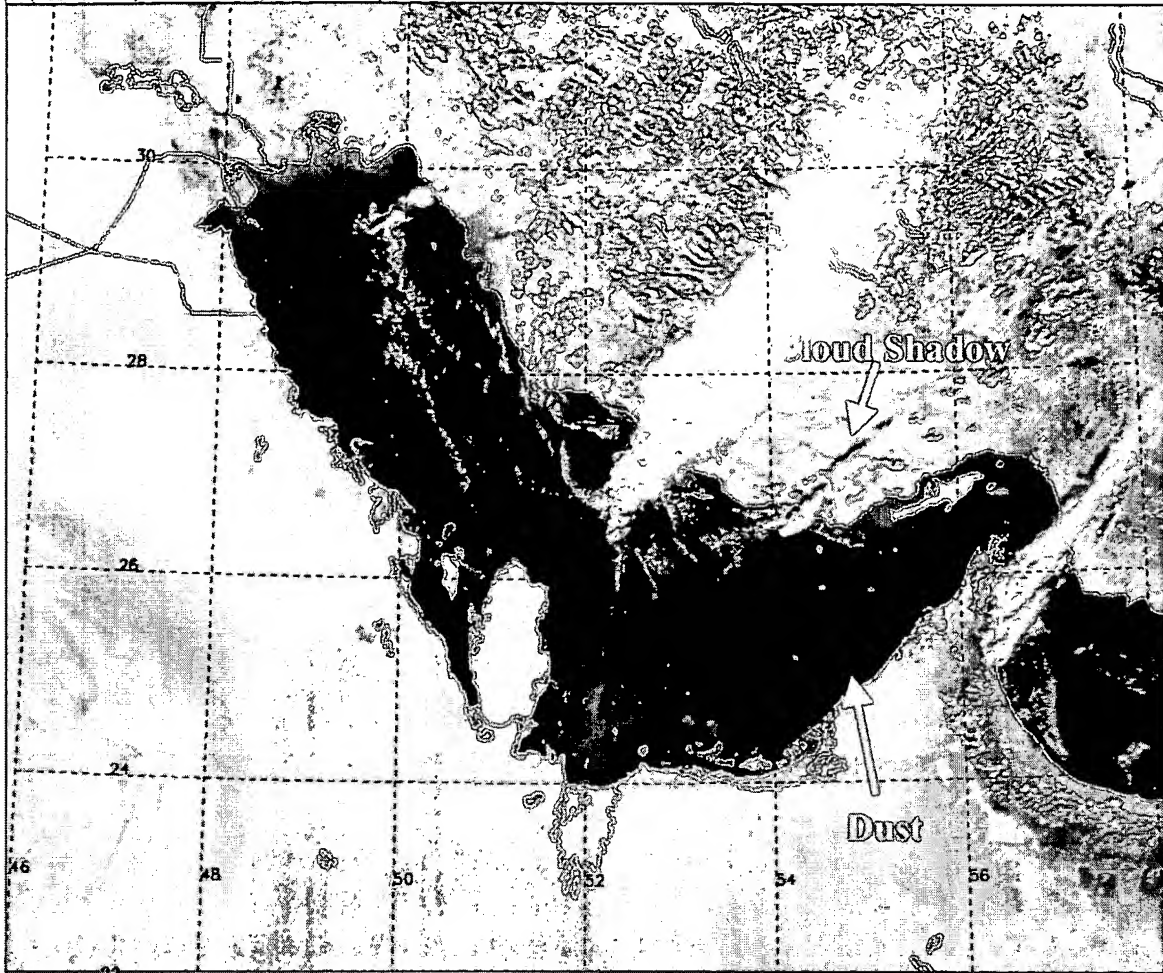


Fig-4 -- SeaWiFS HRPT true color image of the Persian Gulf area, captured by NRC in Bahrain. Airborne dust is indicated. Phytoplankton is responsible for the green pigmentation in the littoral regions

SeaWiFS YOK 2001/08/22 0358Z Naval Research Lab Mry True Color
(Red=670nm, Green=555nm, Blue=412nm)

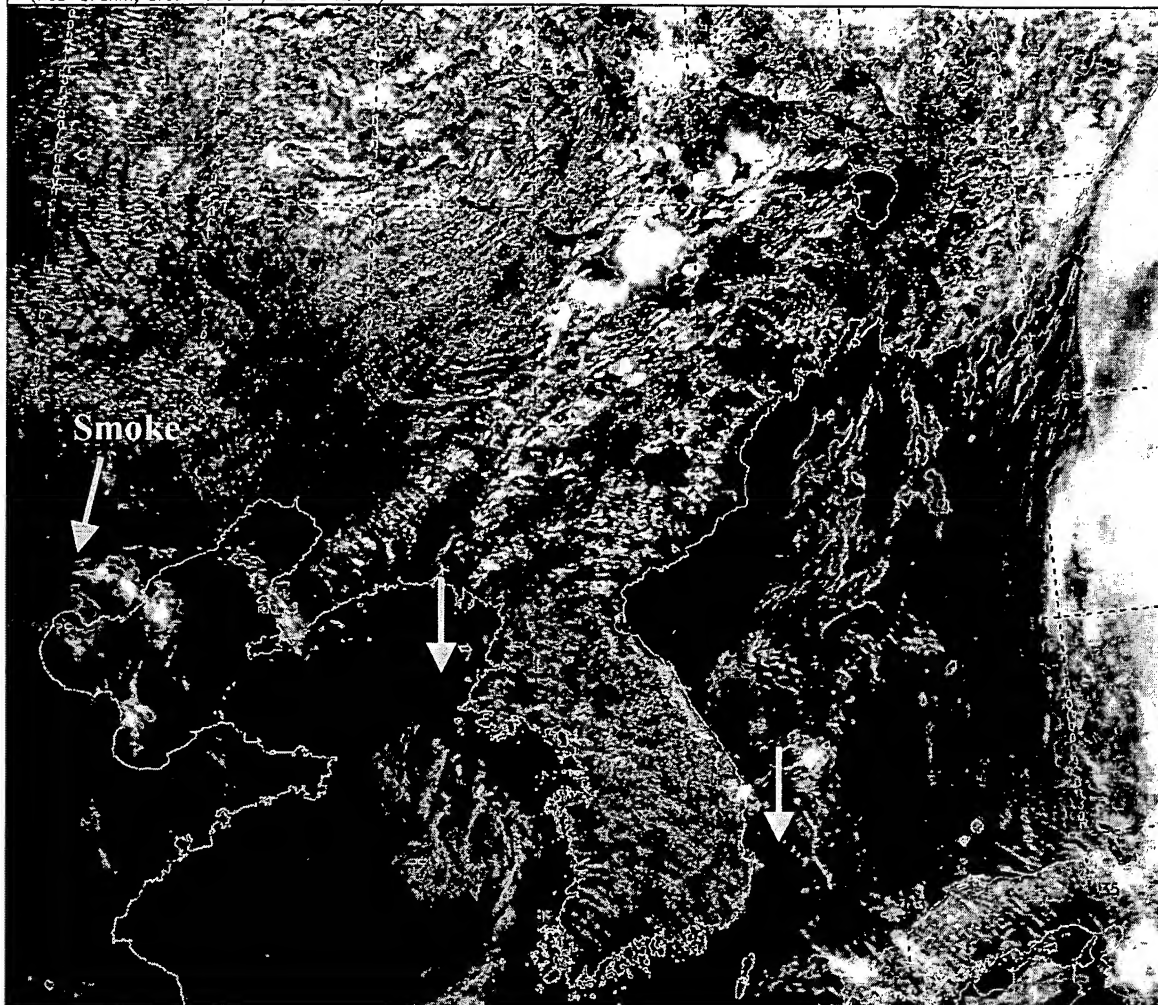


Fig-5 -- SeaWiFS HRPT true color image of the Korean Peninsula, captured by NRC in Yokosuka Japan. Yellow arrows indicate areas of biomass smoke/pollution

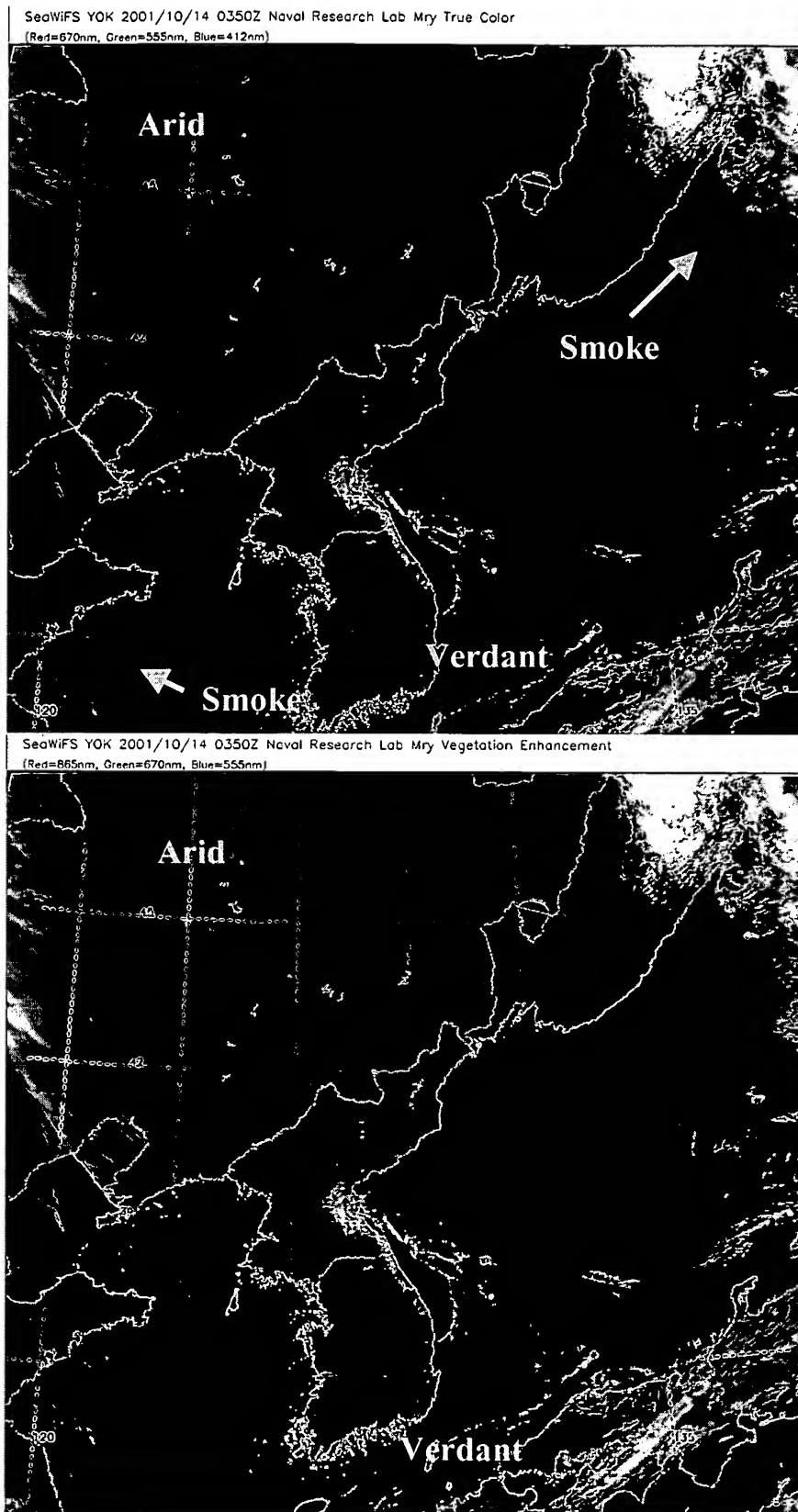


Fig-6 -- True color (top) and vegetation enhancement (bottom). Bright red indicates regions with abundant plant life. Note seasonal changes in Fall vegetation compared against Summer (Figure 5)

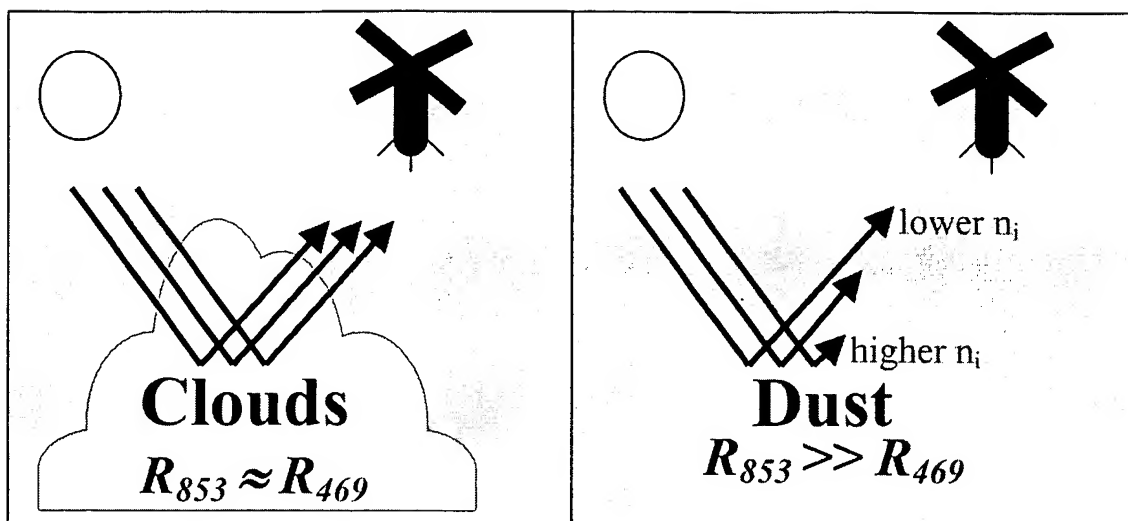


Fig-7 -- Cartoon illustration of preferential absorption of blue light by mineral dust, resulting in yellow reflected light. Clouds scatter more uniformly over the visible wavelengths, resulting in white light

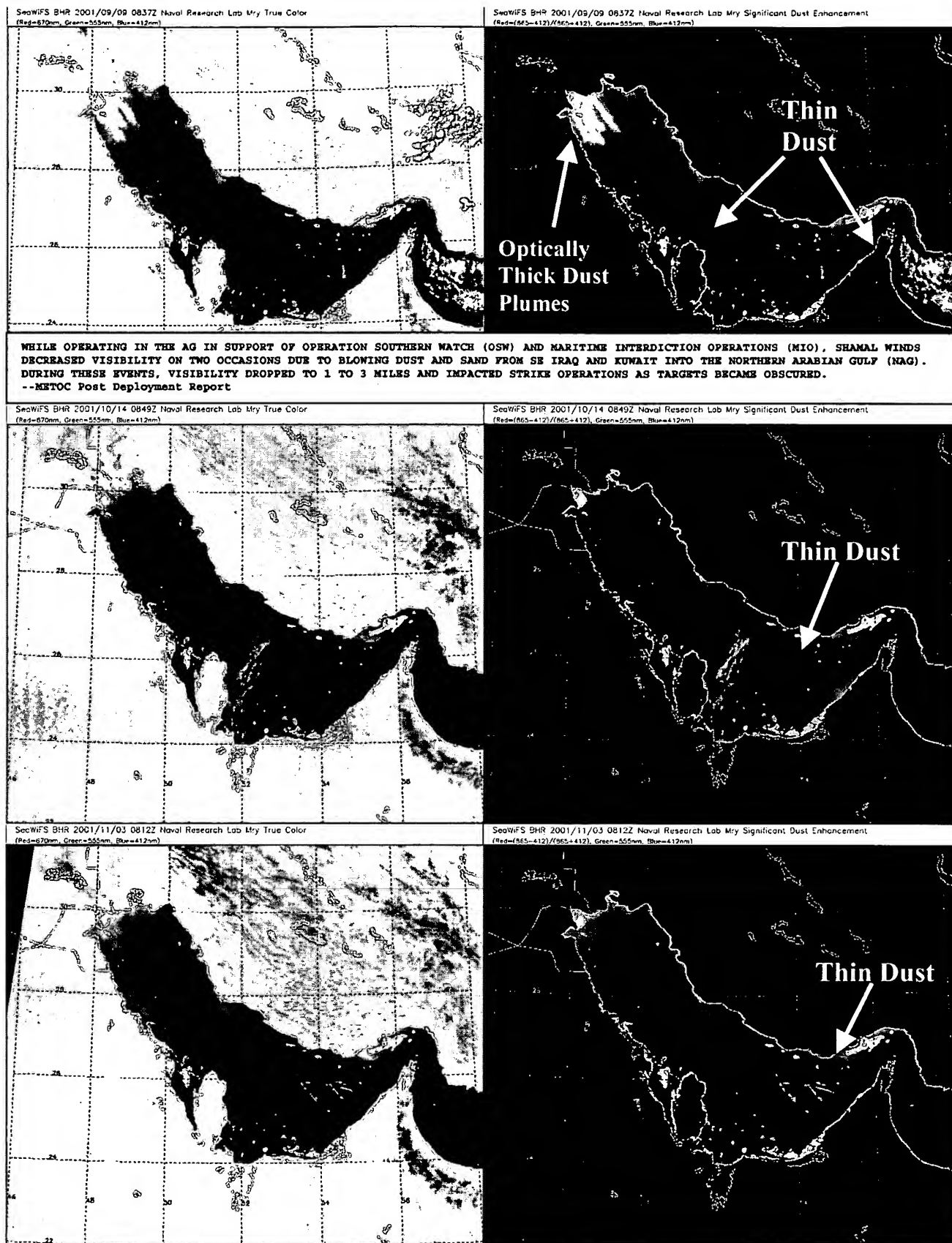


Fig-8 -- Examples of thin dust enhancements over the waters of the Persian Gulf. Optically thin dust plumes appear as darker tones of red. Land regions in the dust enhancement have been masked

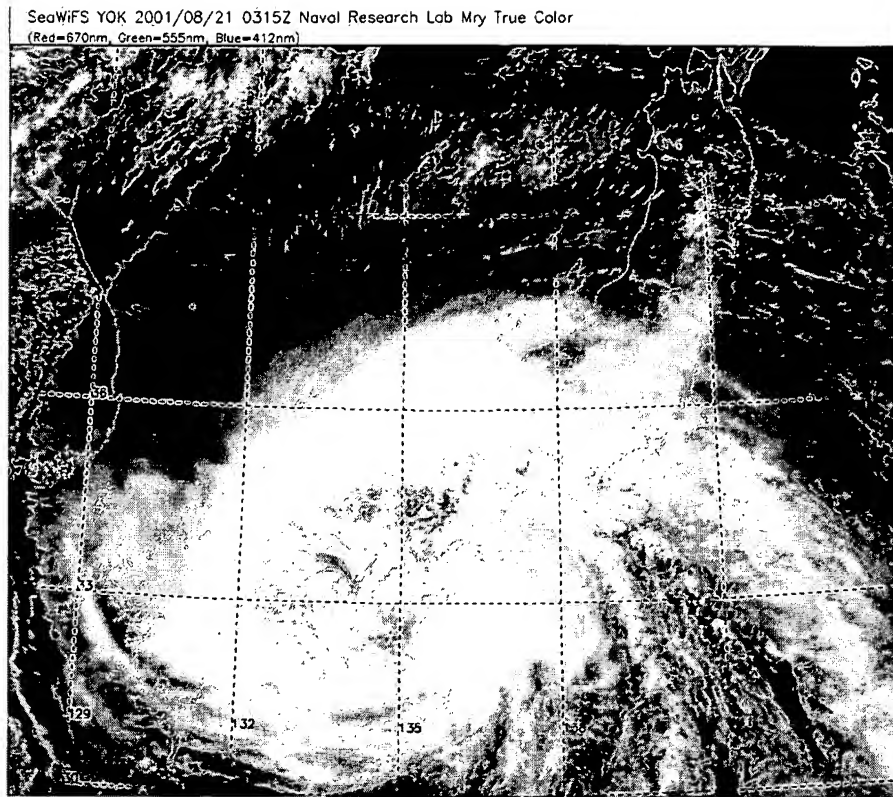


Fig-9 -- True color imagery of Typhoon Pabuk making landfall on Japan

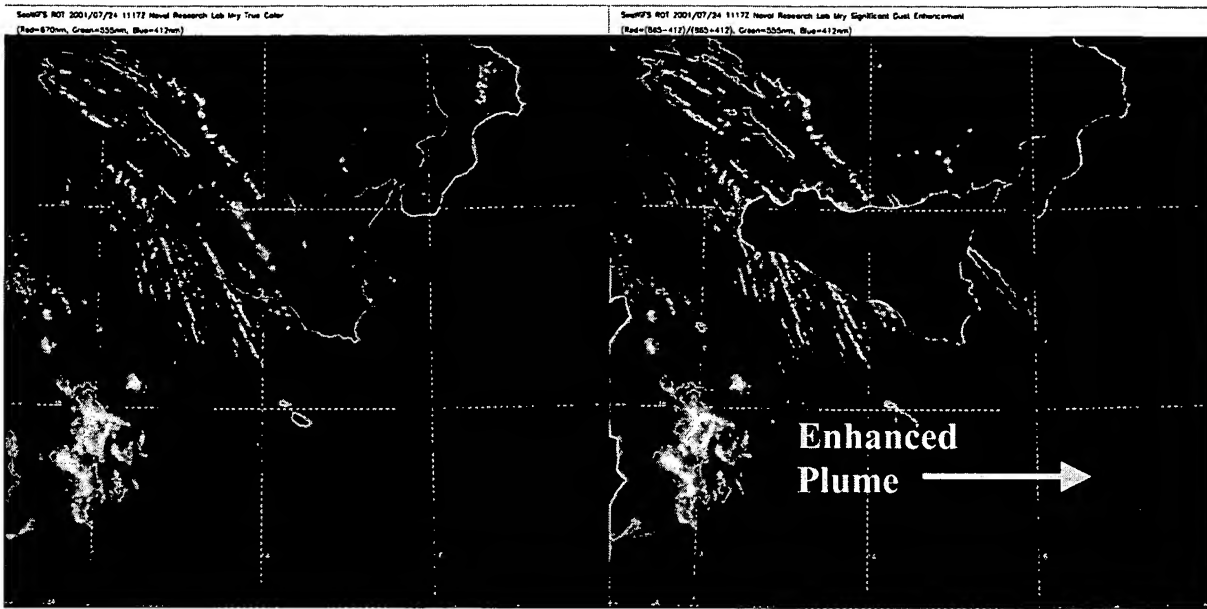
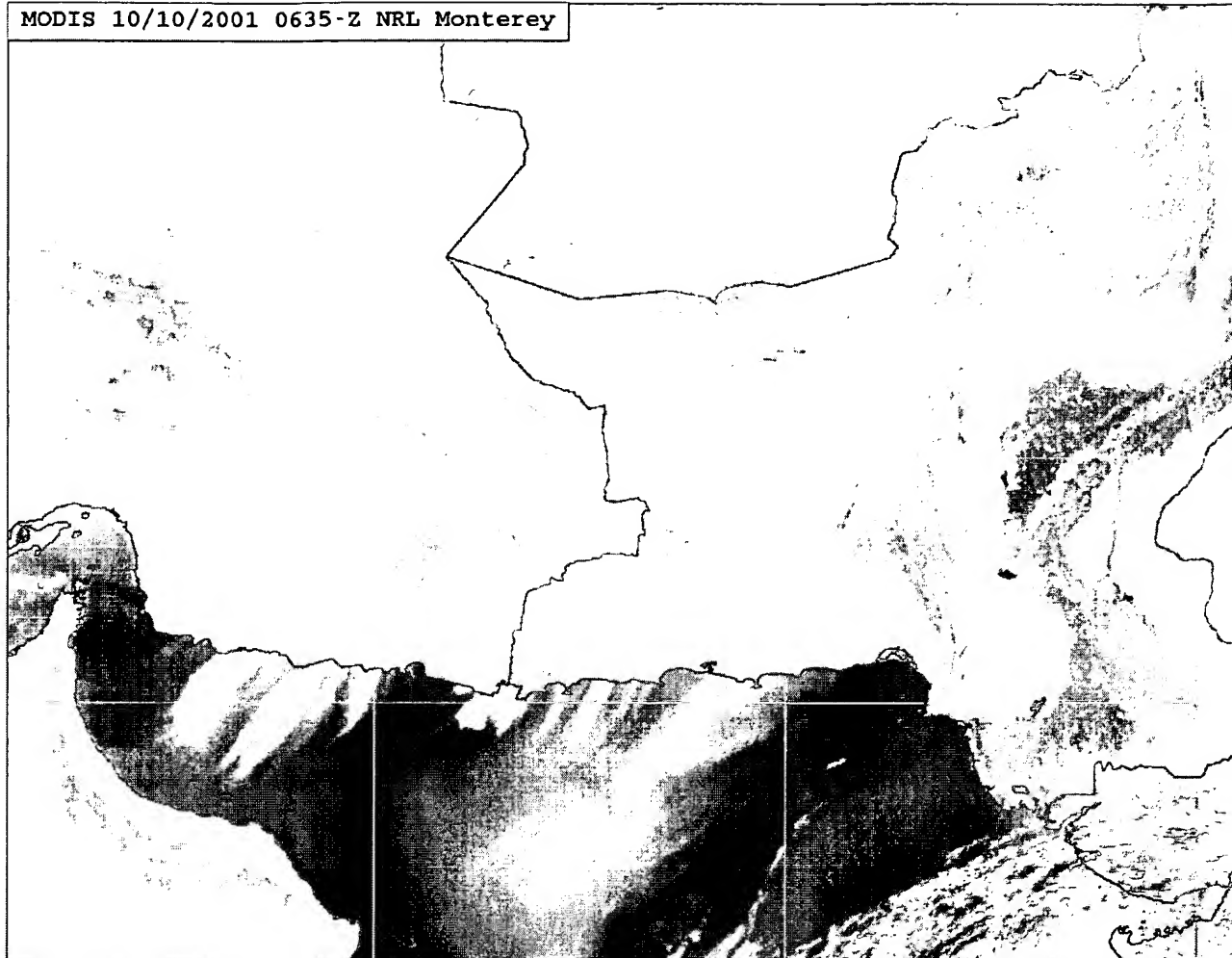


Fig-10 – The enhancement captures a volcanic ash plume from the 2001 eruption of Mt. Etna. Land regions in the dust enhancement have been masked out

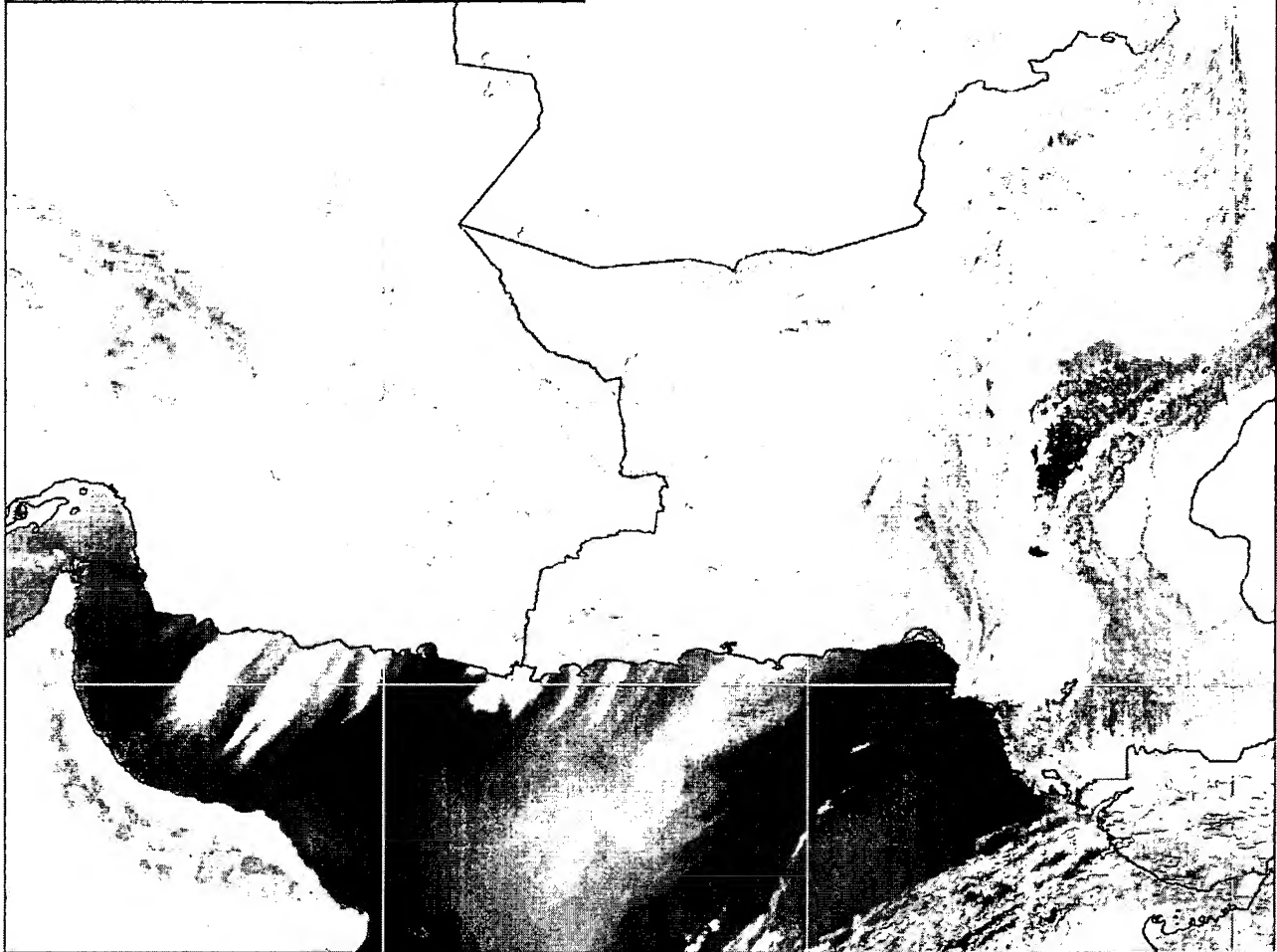
MODIS 10/10/2001 0635-Z NRL Monterey



WHILE OPERATING IN THE NAS IN SUPPORT OF OPERATION ENDURING FREEDOM (OEF), THE PRIMARY METOC-RELATED IMPACT TO OPERATIONS WAS DECREASED VISIBILITY IN N, W, AND S AFGHANISTAN DUE TO STRONG WINDS [...] IN ONE CASE, THE EXTENT OF THE SUSPENDED DUST AREA RANGED WELL OUT INTO THE NORTHERN ARABIAN SEA, WITH VISIBILITY LESS THAN 1 NM.
--METOC Post Deployment Report

Fig-11 -- MODIS dust enhancement (0.5 km resolution) over the Northern Arabian Sea, true color over land. Dust over the ocean and dry lake beds appear as shades of pink. Accompanying text from Navy MetOc post deployment report corresponding to the storm observed in this image

MODIS 10/10/2001 0635-Z NRL Monterey



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Fig-11 -- MODIS dust enhancement (0.5 km resolution) over the Northern Arabian Sea, true color over land. Dust over the ocean and appear as shades of pink. Dry lakebeds over land appear as patches of pink. Accompanying text from Navy MetOc post deployment report corresponding to the storm observed in this image